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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/835,319	04/17/2001	Eun-Kyung Lee	Q63516	5337
75	590 07/17/2002			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202		RODRIGUEZ, ARMANDO		
			ART UNIT	PAPER NUMBER
			2828	
			DATE MAILED: 07/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant/al			
	Application No.	Applicant(s)			
	09/835,319	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Armando Rodriguez	2828			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a r within the statutory minimum of thin ill apply and will expire SIX (6) MON cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 20 J	<u>une 2002</u> .				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowated closed in accordance with the practice under the state of Olivers					
Disposition of Claims A) Claim(a) 1.2.6.10 and 16.18 in/ore pending in	the application				
4) Claim(s) 1,2,6-10 and 16-18 is/are pending in 4a) Of the above claim(s) is/are withdray					
5) Claim(s) is/are allowed.	vii iioiii consideration.				
6)⊠ Claim(s) <u>1,2,6-10 and 16-18</u> is/are rejected.		Parelo			
7) Claim(s) 1,2,0-10 and 10-10 is/are rejected.	PAUL IP				
8) Claim(s) are subject to restriction and/or	SUPERVISORY PATENT EXAMINER				
Application Papers	election requirement.	TECHNOLOGY CENTER 2800			
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accep	oted or b) objected to by t	he Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on	is: a)□ approved b)□ c	isapproved by the Examiner.			
If approved, corrected drawings are required in rep	oly to this Office action.				
12) The oath or declaration is objected to by the Ex	aminer.				
Priority under 35 U.S.C. §§ 119 and 120		·			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).				
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C.	§ 119(e) (to a provisional application).			
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesting 					
Attachment(s)	·				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			

Application/Control Number: 09/835,319

Art Unit: 2828

DETAILED ACTION

Election/Restrictions

Claims 1,2,6-10 and 16-18 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 5.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: first active with the reflectors and second active layer with the reflectors.

Claim *t* is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: first lower reflector, active layer and upper reflector no relationship established only a list of elements.

Application/Control Number: 09/835,319

Art Unit: 2828

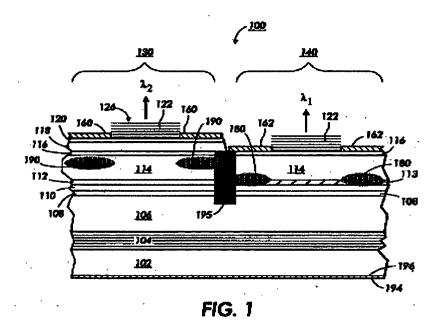
Second lower reflector, active layer and upper reflector no relationship established only a list of elements.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,6-10 and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Paoli (PN 5,699,375).

In the abstract Paoli describes a multiple wavelength surface-emitting laser with neighboring cavities (130,140) having first and second distributed Bragg reflectors (DBR) (104,122) and an active region (108), where the DBR provide reflection to obtain a dual wavelength laser system and all elements of the laser system having a common substrate (102); each neighboring cavity having a pair of upper electrodes (160,162) and lower electrode (194), as shown in figure 1.



Application/Control Number: 09/835,319

Art Unit: 2828

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over figure 1 of

applicant's admitted prior art.

Current confinement sections or layers are well-known in the laser art and

forming theses sections or layers within the upper reflector is well-known as shown in

figure 1 of applicant's cited prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed

to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-

hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be

reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is

assigned are (703) 308-7722 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed

to the receptionist whose telephone number is (703) 308-4881.

Armando Rodriguez

Examiner

Art Unit 2828

AR/PI

July 11, 2002

Supervisor

Art Unit 2828